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1 [Backtracking intrusions](#)



Samuel T. King, Peter M. Chen

October 2003 **SOSP '03:** Proceedings of the nineteenth ACM symposium on Operating systems principles

Publisher: ACM

Full text available: [pdf\(185.10 KB\)](#)

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Analyzing intrusions today is an arduous, largely manual task because system administrators lack the information and tools needed to understand easily the sequence of steps that occurred in an attack. The goal of BackTracker is to identify automatically ...

Keywords: computer forensics, information flow, intrusion analysis

2 LIFT: A Low-Overhead Practical Information Flow Tracking System for Detecting Security Attacks

Feng Qin, Cheng Wang, Zhenmin Li, Ho-seop Kim, Yuanyuan Zhou, Youfeng Wu
December 2006 **MICRO 39:** Proceedings of the 39th Annual IEEE/ACM International Symposium on Microarchitecture

Publisher: IEEE Computer Society

Full text available:  [pdf\(254.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Computer security is severely threatened by software vulnerabilities. Prior work shows that information flow tracking (also referred to as taint analysis) is a promising technique to detect a wide range of security attacks. However, current information ...

3 ABASH: finding bugs in bash scripts



Karl Mazurak, Steve Zdancewic

June 2007 **PLAS '07:** Proceedings of the 2007 workshop on Programming languages and analysis for security

Publisher: ACM

Full text available:  [pdf\(262.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the design and implementation of ABASH, a tool for statically analyzing programs written in the bash scripting language. Although it makes no formal guarantees against missed errors or spurious warnings (largely due to the ...

Keywords: abstract interpretation, bash, scripting languages

4 Multi-module vulnerability analysis of web-based applications



Davide Balzarotti, Marco Cova, Viktoria V. Felmetsger, Giovanni Vigna

October 2007 **CCS '07:** Proceedings of the 14th ACM conference on Computer and communications security

Publisher: ACM

Full text available:  [pdf\(319.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In recent years, web applications have become tremendously popular, and nowadays they are routinely used in security-critical environments, such as medical, financial, and military systems. As the use of web applications for critical services has increased, ...

Keywords: dynamic analysis, multi-step attacks, static analysis, vulnerability analysis, web applications

5 Automatic temporal layout mechanisms revisited




M. Cecelia Buchanan, Polle T. Zellweger

February

2005

ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP), Volume 1 Issue 1

Publisher: ACM

Full text available:  pdf(1.09 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

A traditional static document has a spatial layout that specifies where objects in the document appear. Because multimedia documents incorporate time, they also require a temporal layout, or schedule, that specifies when events in the document occur. ...

Keywords: Multimedia documents, multimedia authoring, temporal formatting, temporal specification

6 Automatic labeling of semantic roles

Daniel Gildea, Daniel Jurafsky

September

2002

Computational Linguistics, Volume 28 Issue 3

Publisher: MIT Press

Full text available:  pdf(573.51 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

*We present a system for identifying the semantic relationships, or **semantic roles**, filled by constituents of a sentence within a semantic frame. Given an input sentence and a target word and frame, the system labels constituents with either ...*

7 Backtracking intrusions



Samuel T. King, Peter M. Chen

December

2003

ACM SIGOPS Operating Systems Review, Volume 37 Issue 5

Publisher: ACM

Full text available:  pdf(185.10 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Analyzing intrusions today is an arduous, largely manual task because system administrators lack the information and tools needed to understand easily the sequence of steps that occurred in an attack. The goal of BackTracker is to identify automatically ...

Keywords: computer forensics, information flow, intrusion analysis

8 ASM: application security monitor

 Micha Moffie, David Kaeli
December 2005 **ACM SIGARCH Computer Architecture News**, Volume 33 Issue 5


Publisher: ACM

Full text available:  pdf(246.65 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Our Application Security Monitor (ASM) is a run-time monitor that dynamically collects execution-related data. ASM is part of a security framework that will allow us to explore different security policies aimed at identifying malicious behavior ...

9 Testing Intrusion detection systems: a critique of the 1998 and 1999 DARPA

 intrusion detection system evaluations as performed by Lincoln Laboratory
November 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3 Issue 4

Publisher: ACM

Full text available:  pdf(156.16 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

In 1998 and again in 1999, the Lincoln Laboratory of MIT conducted a comparative evaluation of intrusion detection systems (IDSs) developed under DARPA funding. While this evaluation represents a significant and monumental undertaking, there are a number ...

Keywords: computer security, intrusion detection, receiver operating curves (ROC), software evaluation

10 Backtracking intrusions

 Samuel T. King, Peter M. Chen
February 2005 **ACM Transactions on Computer Systems (TOCS)**, Volume 23 Issue 1

Publisher: ACM

Full text available:  pdf(647.38 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

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